UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,346	03/25/2005	Kalle Ahmavaara	47092.00113	6681
	7590 09/18/200 DERS & DEMPSEY L	EXAMINER		
8000 TOWERS	CRESCENT DRIVE	BALAOING, ARIEL A		
14TH FLOOR VIENNA, VA 2	22182-6212		ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			09/18/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/529,346	AHMAVAARA ET AL.				
Office Action Summary	Examiner	Art Unit				
	ARIEL BALAOING	2617				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tirwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 25 № 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under №	s action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4)  Claim(s) <u>1-36</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) <u>1-36</u> is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	wn from consideration.  or election requirement.  er.	o by the Evaminer				
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D: 5)  Notice of Informal F 6) Other:	ate				

Art Unit: 2617

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 1. Claim 19 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 19 recites the limitation wherein said APN is decrypted in said authentication server. It is however noted that paragraph 30 states that the parameters are only decrypted at the access point or selected service network and therefore does describe decryption at the authentication server.
- 2. Claims 30, 32-34 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Newly added Claims 30, 32-34 recite the limitations "a data structure", "a computer program product", and/or "a computer readable medium". These limitations are not included in the applicant's originally filed disclosure (with respect to the 371 filing date), and therefore constitute new matter.

Art Unit: 2617

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claim 10, 27 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 10 recites the limitation "said APN" in the body of the claim. There is insufficient antecedent basis for this limitation in the claim.
- 6. Claim 27 recites the limitation "said system" in the preamble of the claim. There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 28, 30, 32-34 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding claim 28, based on Supreme Court precedent and recent Federal Circuit decisions, a 35 U.S.C 101 process must (1) be tied to another statutory class (such as a particular apparatus) of (2) transform underlying subject matter (such as an article or materials) to a different state or thing. If neither of these requirements is met by the claim, the method is not a patent eligible process under 35 U.S.C 101 and should be rejected as being directed to non-statutory subject matter. See *Diamond v. Diehr*,

450 US 175, 184 (1981); Parker v. Flook, 437 US 584, 588 n.9 (1978); Gottschalk v. Benson, 409 US 63, 70, 71 (1972); Cochrane v. Deener, 94 US 780, 787-88 (1876). The Supreme Court recognized that this test is not necessarily fixed or permanent and may evolve with technological advances.

Claims 30, 32-34 are drawn to a "program" per se as recited in the preamble and as such is non-statutory subject matter. See MPEP § 2106.IV.B.1.a. Data structures not claimed as embodied in computer readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory. Similarly, computer programs claimed as computer listings per se, i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

Art Unit: 2617

Examples of acceptable language in computer-processing related claims :

1.	"computer	readable medium"	encoded with	
• •				

- [a] "a computer program"
- [b] "software"
- [c] "computer executable instructions"
- [d] "instructions capable of being executed by a computer"
- 2. "a computer readable medium" \_\_\_\_\_ "computer program"
  - [a] storing a
  - [b] embodied with a
  - [c] encoded with a
  - [d] having a stored
  - [e] having an encoded

# Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 9. Claims 1, 12, 21, 27-36 are rejected under 35 U.S.C. 102(e) as being anticipated by O'NEILL (US 2003/0176188).

Regarding claim 1, O'NEILL discloses a method of providing access via a first network [roaming] to a service facilitated by a second network [home network] (abstract), said method comprising the steps of: a) using an authentication message [authorization message] to signal a service selection information [network access identifier/service profile identifier] via said first network to an authentication server

[AAA server] means of said second network (abstract; paragraph 24, 31); and b) using said service selection information to connect to services provided over an access point [access point] indicated by said service selection information (abstract; paragraph 24, 31; actual services provided based on a combination of foreign and home operator policy).

Regarding claim 12, O'NEILL discloses an authentication server device

[authentication server] for providing an authentication mechanism (abstract), said authentication server being configured: a) to extract from a received authentication message a service selection information for selecting a service (abstract; paragraph 24, 31); and b) to use said service selection information for establishing a connection to services provided over an access point indicated by said service selection information (abstract; paragraph 24, 31; actual services provided based on a combination of foreign and home operator policy).

Regarding claim 21, O'NEILL discloses a terminal device for providing access to a network service (abstract), said device being configured to set in an authentication message a service selection information for selecting said network service (abstract; paragraph 24, 31; actual services provided based on a combination of foreign and home operator policy).

Regarding claim 27, O'NEILL discloses a system [figure 1] for providing access from a first network [roaming] to a service of a second network [home network], said system comprising; a terminal device connected to the first network, said terminal device configured to provide access to a network service, said terminal device

configured to set in an authentication message a service selection information for selecting said network service (abstract; paragraph 24, 31); and an authentication server device [AAA server] connected to the second network, said authentication server device for providing an authentication mechanism, said authentication server device being configured to extract from a received authentication message a service selection information for selecting a service, and to use said service selection information for establishing a connection to services provided over an access point indicated by said service selection information (abstract; paragraph 24, 31; actual services provided based on a combination of foreign and home operator policy).

Regarding claim 28, O'NEILL discloses a method of providing an authentication mechanism, said method comprising the steps of: a) extracting from a received authentication message a service selection information for selecting a service (abstract; paragraph 24, 31); and b) using said service selection information for establishing a connection to services provided over an access point indicated by said service selection information (abstract; paragraph 24, 31; actual services provided based on a combination of foreign and home operator policy).

Regarding claim 29, O'NEILL discloses a method of providing access to a network service, said method comprising the step of setting in an authentication message a service selection information for selecting said network service at a terminal device (abstract; paragraph 24, 31).

Regarding claim 30, O'NEILL discloses a computer program product embodied on a computer readable medium comprising code means configured to produce the

steps of claim 1 when run on a computer device (abstract; paragraph 24, 31; it is inherently necessary to provide software and processing means to perform the processes disclosed by O'NEILL).

Regarding claim 31, O'NEILL discloses a processor device configured to produce the steps of claim 1 (abstract; paragraph 24, 31; it is inherently necessary to provide software and processing means to perform the processes disclosed by O'NEILL).

Regarding claim 32, O'NEILL discloses a data structure of an authentication message, said data structure being configured to include a service selection information for selecting a service (abstract; paragraph 24, 31; it is inherently necessary to provide software and processing means to perform the processes disclosed by O'NEILL).

Regarding claim 33, O'NEILL discloses a computer program product embodied on a computer readable medium, said computer program product comprising code means configured to produce the steps of claim 28 when run on a computer device (abstract; paragraph 24, 31; it is inherently necessary to provide software and processing means to perform the processes disclosed by O'NEILL).

Regarding claim 34, O'NEILL discloses a computer program product embodied on a computer readable medium, said computer program product comprising code means configured to produce the steps of claim 29 when run on a computer device (abstract; paragraph 24, 31; it is inherently necessary to provide software and processing means to perform the processes disclosed by O'NEILL).

Art Unit: 2617

Regarding claim 35, O'NEILL discloses a processor device configured to produce the steps of claim 28 (abstract; paragraph 24, 31; it is inherently necessary to provide software and processing means to perform the processes disclosed by O'NEILL).

Regarding claim 36, O'NEILL discloses a processor device configured to produce the steps of claim 29 (abstract; paragraph 24, 31; it is inherently necessary to provide software and processing means to perform the processes disclosed by O'NEILL).

### Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 12. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

13. Claims 2-7, 13-16, 22-24, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'NEILL (US 2003/0176188) in view of MCINTOSH et al (US 2003/0139180).

Regarding claim 2, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, O'NEILL does not expressly disclose wherein said first network is a wireless local area network. In the same field of endeavor, MCINTOSH discloses wherein a first network is a wireless local area network (abstract). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since the use of wireless local area networks is conventional and commonplace in the art and allows a system to be designed using standardized protocols.

Regarding claim 3, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, O'NEILL does not expressly disclose wherein said second network is a cellular packet-switched network. In the same field of endeavor, MCINTOSH teaches wherein a second network is a cellular packet-switched network (abstract). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since the use of a cellular packet-switched network is conventional and

commonplace in the art and allows a system to be designed using standardized protocols.

Regarding claim 4, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and MCINTOSH further discloses wherein said cellular packet-switched network is a GPRS network (MCINTOSH – paragraph 50).

Regarding claim 5, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, O'NEILL does not expressly disclose wherein said authentication message is an EAP message. In the same field of endeavor, MCINTOSH teaches wherein an authentication message is an EAP message (paragraph 68, 71, 83). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since such a modification would provide authentication means using a standardized protocol.

Regarding claim 6, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and MCINTOSH further discloses wherein said EAP message is an EAP SIM or EAP AKA message (MCINTOSH - 92).

Regarding claim 7, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and MCINTOSH further discloses wherein said authentication message is an EAP Challenge Response message (MCINTOSH – 124-147).

Art Unit: 2617

Regarding claim 13, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, O'NEILL does not expressly disclose wherein said authentication mechanism is based on an EAP protocol.. In the same field of endeavor, MCINTOSH teaches wherein an authentication mechanism is based on an EAP protocol. (paragraph 68, 71, 83). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since such a modification would provide authentication means using a standardized protocol.

Regarding claim 14, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and MCINTOSH further discloses wherein said received authentication message is an EAP Challenge Response message (MCINTOSH – 124-147).

Regarding claim 15, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. O'NEILL further discloses wherein said authentication server is a standalone authentication server (abstract; paragraph 24, 31), however, O'NEILL does not expressly disclose the use of a WLAN authentication server. In the same field of endeavor MCINTOSH discloses the use of a WLAN authentication server (paragraph 43-44). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since the use of wireless local area networks is conventional and commonplace in the art and allows a system to be designed using standardized protocols.

Regarding claim 16, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, O'NEILL does not expressly disclose wherein said authentication server is a GGSN. In the same field of endeavor, MCINTOSH discloses wherein said authentication server is a GGSN (paragraph 61, 65). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since the use of a cellular packet-switched network is conventional and commonplace in the art and allows a system to be designed using standardized protocols.

Regarding claim 22, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, O'NEILL does not expressly disclose wherein said authentication message is an EAP message. In the same field of endeavor, MCINTOSH teaches wherein an authentication message is an EAP message (paragraph 68, 71, 83). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since such a modification would provide authentication means using a standardized protocol.

Regarding claim 23, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and MCINTOSH further discloses wherein said authentication message is an EAP Challenge Response message (MCINTOSH – 124-147).

Regarding claim 24, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and MCINTOSH

Art Unit: 2617

further discloses wherein said EAP message is an EAP SIM or EAP AKA message (MCINTOSH - 92).

Regarding claim 26, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, O'NEILL does not expressly disclose wherein said service is a GPRS service. In the same field of endeavor, MCINTOSH discloses wherein service is a GPRS service (paragraph 50). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of MCINTOSH, since the use of a cellular packet-switched network is conventional and commonplace in the art and allows a system to be designed using standardized protocols.

14. Claims 8, 9, 17, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'NEILL (US 2003/0176188) in view of TOMOIKE (US 2002/0107964).

Regarding claim 8, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. O'NEILL further disclose wherein said service selection information comprises at least one network parameter. In the same field of endeavor, TOMOIKE discloses wherein information comprises at least one APN parameter (paragraph 42-44). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of TOMOIKE, since APN's and NAI's (as disclosed by O'NEILL) were are-recognized equivalents at the time the invention was made and one of ordinary skill in the art would have found it obvious to substitute APN's for NAI's for identifying network services.

Regarding claim 9, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and TOMOIKE further discloses wherein said at least one APN parameter comprises an APN, a username and a password (TOMOIKE – paragraph 42-44).

Regarding claim 17, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. O'NEILL further discloses wherein said service selection information comprises at least one network parameter (paragraph 24, 31), however, O'NEILL does not expressly disclose wherein at least one network parameter comprises an APN. In the same field of endeavor, TOMOIKE discloses wherein at least one network parameter comprises an APN (paragraph 42-44). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of TOMOIKE, since APN's and NAI's (as disclosed by O'NEILL) were are-recognized equivalents at the time the invention was made and one of ordinary skill in the art would have found it obvious to substitute APN's for NAI's for identifying network services.

Regarding claim 25, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. O'NEILL further discloses wherein said service selection information comprises at least one network parameter (paragraph 24, 31), however, O'NEILL does not expressly disclose wherein at least one network parameter comprises an APN. In the same field of endeavor, TOMOIKE discloses wherein at least one network parameter comprises an APN (paragraph 42-44). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made

to modify O'NEILL to include the teachings of TOMOIKE, since APN's and NAI's (as disclosed by O'NEILL) were are-recognized equivalents at the time the invention was made and one of ordinary skill in the art would have found it obvious to substitute APN's for NAI's for identifying network services.

15. Claims 10, 11, 18, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'NEILL (US 2003/0176188) in view of TOMOIKE (US 2002/0107964) and further in view of BUDDHIKOT et al (US 2003/00146464).

Regarding claim 10, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. O'NEILL further disclose wherein said service selection information comprises at least one network parameter. In the same field of endeavor, TOMOIKE discloses wherein information comprises at least one APN parameter (paragraph 42-44). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify O'NEILL to include the teachings of TOMOIKE, since APN's and NAI's (as disclosed by O'NEILL) were arerecognized equivalents at the time the invention was made and one of ordinary skill in the art would have found it obvious to substitute APN's for NAI's for identifying network services. The combination of O'NEILL and TOMOIKE further discloses wherein said APN is in said authentication message, However, the combination of O'NEILL and TOMOIKE does not expressly disclose wherein the parameter is encrypted. In a similar field of endeavor, BUDDHIKOT discloses wherein a parameter is encrypted (paragraph 24, 31). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the combination of O'NEILL and TOMOIKE

Art Unit: 2617

to include the teachings of BUDDHIKOT, since encryption and decryption of a message provides secure communication over a wireless communication link.

Regarding claim 11, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, the combination of O'NEILL and TOMOIKE does not expressly disclose wherein at least one of said APN parameters is encrypted so that it can only be decrypted at the network defined by the APN. In a similar field of endeavor, BUDDHIKOT discloses wherein at least one of said message parameters is encrypted so that it can only be decrypted at the network defined by the message. paragraph 24, 31). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the combination of O'NEILL and TOMOIKE to include the teachings of BUDDHIKOT, since encryption and decryption of a message provides secure communication over a wireless communication link.

Regarding claim 18, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and TOMOIKE further discloses wherein said APN is in said authentication message, However, the combination of O'NEILL and TOMOIKE does not expressly disclose wherein the parameter is encrypted. In a similar field of endeavor, BUDDHIKOT discloses wherein a parameter is encrypted (paragraph 24, 31). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the combination of O'NEILL and TOMOIKE to include the teachings of BUDDHIKOT, since

Art Unit: 2617

encryption and decryption of a message provides secure communication over a wireless communication link.

Regarding claim 20, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. The combination of O'NEILL and TOMOIKE further discloses wherein at least one of said APN parameter is forwarded by the authentication server to said access point (O'NEILL - paragraph 24, 31). However, the combination of O'NEILL and TOMOIKE does not expressly disclose forwarding the parameter in an encrypted manner. In a similar field of endeavor, BUDDHIKOT teaches forwarding a parameter in an encrypted manner (paragraph 24, 31). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the combination of O'NEILL and TOMOIKE to include the teachings of BUDDHIKOT, since encryption and decryption of a message provides secure communication over a wireless communication link.

16. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over O'NEILL (US 2003/0176188) in view of TOMOIKE (US 2002/0107964) and further in view of LIOY et al (US 2003/0220107).

Regarding claim 19, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. However, the combination of O'NEILL and TOMOIKE does not expressly disclose wherein at least one of said APN parameters is decrypted in said authentication server. In a similar field of endeavor, LIOY discloses wherein at least one parameter is decrypted in an authentication server (paragraph 43). Therefore it would have been obvious to a person of ordinary skill in the art at the time

Art Unit: 2617

the invention was made to modify the combination of O'NEILL and TOMOIKE to include the teachings of LIOY, since encryption and decryption of a message provides secure communication over a wireless communication link.

#### Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

HURTTA et al (US 2005/0117591) – Address de-registration from ip multimedia networks

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARIEL BALAOING whose telephone number is (571)272-7317. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, V. Paul Harper can be reached on (571) 272-7605. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VINCENT P. HARPER/ Supervisory Patent Examiner, Art Unit 2617 /Ariel Balaoing/ Examiner, Art Unit 2617

/A. B./ Examiner, Art Unit 2617